

ABSTRACT OF THE DISCLOSURE

A semiconductor device comprises a carrier substrate, an integrated circuit chip mounted on the carrier substrate via bumps, and a capacitor provided to stabilize operation of the integrated circuit chip at high frequencies. In the semiconductor device, the capacitor is electrically connected to pads on bottom of the integrated circuit chip, and the capacitor is provided to have a height on the carrier substrate that is smaller than or equal to a height of the bumps on the carrier substrate.

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